

Claims

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1. A method for facilitating a wireless transaction, comprising:
receiving, by a transaction management system, a transaction request from a transaction requester;
verifying an identity of the transaction requester; and
communicating a first transaction code to a wireless communication device.
 2. The method of claim 1 wherein communicating the first transaction code includes communicating a first optically scannable transaction code.
 3. The method of claim 2 wherein communicating the optically scannable first transaction code includes communicating a first transaction barcode.
 4. The method of claim 1 wherein communicating the first transaction code includes communicating the first transaction code from the transaction management system.
 5. The method of claim 4, further comprising:
communicating a second transaction code from a transaction fulfillment system to the wireless communication device after communicating the first transaction code.
 6. The method of claim 1 wherein verifying the identity of the transaction requester includes authenticating a spoken authentication code.
 7. The method of claim 6 wherein authenticating the spoken authentication code includes receiving, by the transaction management system, a spoken authentication code.

8. The method of claim 7 wherein receiving the spoken authentication code includes receiving the spoken authentication code from the wireless communication device.
9. The method of claim 6 wherein authenticating the spoken authentication code includes comparing the spoken authentication code to an authentic voice print of an authorized user of the wireless communication device.
10. The method of claim 6, further comprising:
displaying the first transaction code on a visual display of the wireless communication device; and
optically scanning the first transaction code from the visual display.
11. The method of claim 1, further comprising:
displaying the first transaction code on a visual display of the wireless communication device; and
optically scanning the first transaction code from the visual display.
12. The method of claim 11, further comprising:
receiving, by the transaction management system, a decoded representation of the first transaction code in response to optically scanning the first transaction code.
13. The method of claim 11, further comprising:
receiving, by the transaction management system, a first fulfillment verification after optically scanning the first transaction code.
14. The method of claim 13, further comprising:
communicating a second transaction code to the wireless communication device after receiving the first fulfillment verification.

13. The method of claim 12 wherein communicating the second transaction code includes communicating the second transaction code from a transaction fulfillment system.

14. The method of claim 12, further comprising:
optically scanning the second transaction code from a visual display of the wireless communication device.

15. The method of claim 14, further comprising:
receiving, by the transaction management system, a decoded representation of the second transaction code in response to optically scanning the second transaction code.

14 18. The method of claim 16, further comprising:
receiving, by the transaction management system, a second fulfillment verification
after optically scanning the second transaction code.

19. The method of claim 1, further comprising:
verifying the first transaction code.

20. The method of claim 19 wherein verifying the first transaction code includes decoding, by the transaction fulfillment system, the first transaction code and communicating a decoded representation of the first transaction code to the transaction management system.

19. The method of claim 18 wherein decoding the first transaction code includes optically scanning the first transaction code from a visual display of the wireless communication device prior to decoding the first transaction code.

22. The method of claim 19, further comprising:

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communicating a second transaction code to the wireless communication device after verifying the first transaction code.

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23. The method of claim ²⁰~~22~~ wherein communicating the second transaction code includes communicating the second transaction code from the transaction management system.

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24. The method of claim ²⁰~~22~~ wherein communicating the second transaction code includes communicating the second transaction code from a transaction fulfillment system.

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25. The method of claim ²²~~24~~ wherein communicating the second transaction code includes communicating the second transaction code directly from the transaction fulfillment system to the wireless communication device.

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26. The method of claim ²³~~25~~ wherein communicating the second transaction code directly from the transaction fulfillment system includes communicating the second transaction code from a radio transceiver of the transaction fulfillment system to a radio transceiver of the wireless communication device.

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27. The method of claim ²⁰~~27~~, further comprising:
verifying the second transaction code.

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28. The method of claim ~~27~~, further comprising;
communicating a second fulfillment verification to the transaction management system in response to verifying the second transaction code.

29. The method of claim ²⁵~~27~~, further comprising:
communicating a transaction message to the wireless communication device after verifying the second transaction code.

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1. *Staphylococcus aureus* (ATCC 12228) was grown in Tryptone Soy Broth (TSB) (Difco) at 37°C. Cells were harvested at mid-log phase (OD₆₀₀ = 0.5) and washed with phosphate buffered saline (PBS). Cells were then resuspended in PBS and sonicated using a Branson 250 sonifier (Branson Ultrasonics, Danbury, CT) at 20% amplitude for 10 min. The cell suspension was then centrifuged at 14,000g for 10 min and the supernatant was removed. The pellet was resuspended in PBS and sonicated again. The supernatant was removed and the pellet was resuspended in PBS. The final supernatant was combined and the cell debris was removed by centrifugation at 14,000g for 10 min. The supernatant was then filtered through a 0.22 µm filter (Millex, Millipore, Bedford, MA) and the filtrate was then concentrated using a Centricon 30 (Amicon, Beverly, MA) and dialyzed into PBS. The dialysate was then concentrated using a Centricon 30 and the final concentrate was then dialyzed into PBS. The final concentrate was then dialyzed into PBS.

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receiving a transaction request from a transaction requester;
verifying an identity of the transaction requester; and
communicating a transaction code to a wireless
communication device.

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41. The system of claim 40 wherein the transaction management system is coupled to the wireless data network system through a computer network system.

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42. The system of claim 41 wherein the wireless data network system includes a wireless local area network system.

43. The system of claim 34, further comprising:

a transaction fulfillment system coupled to the transaction management system and capable of:

optically scanning the transaction code from a visual display of the wireless communication device.

44. The system of claim 43 wherein the transaction fulfillment system includes a code scanning device.

45. The system of claim 45 wherein the code scanning device includes a bar code reader.

46. The system of claim 43 wherein the transaction fulfillment system is capable of decoding the transaction code in response to optically scanning the transaction code.

47. The system of claim 43 wherein the transaction fulfillment system and the wireless communication device each include a radio transceiver for enabling communication directly between the wireless communication device and the transaction fulfillment system.

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48. The system of claim 34, further comprising:
a client computer system coupled to the transaction management system.

49. A system for facilitating a wireless transaction, comprising:

a transaction apparatus capable of:

receiving a transaction request from a transaction requester;

verifying an identity of the transaction requester; and

communicating a transaction code to a wireless

~~communication device.~~

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1. *Chlorophyll a* (Chl *a*)
 2. *Chlorophyll b* (Chl *b*)
 3. *Chlorophyll c* (Chl *c*)
 4. *Chlorophyll d* (Chl *d*)
 5. *Chlorophyll e* (Chl *e*)
 6. *Chlorophyll f* (Chl *f*)
 7. *Chlorophyll g* (Chl *g*)
 8. *Chlorophyll h* (Chl *h*)
 9. *Chlorophyll i* (Chl *i*)
 10. *Chlorophyll j* (Chl *j*)
 11. *Chlorophyll k* (Chl *k*)
 12. *Chlorophyll l* (Chl *l*)
 13. *Chlorophyll m* (Chl *m*)
 14. *Chlorophyll n* (Chl *n*)
 15. *Chlorophyll o* (Chl *o*)
 16. *Chlorophyll p* (Chl *p*)
 17. *Chlorophyll q* (Chl *q*)
 18. *Chlorophyll r* (Chl *r*)
 19. *Chlorophyll s* (Chl *s*)
 20. *Chlorophyll t* (Chl *t*)
 21. *Chlorophyll u* (Chl *u*)
 22. *Chlorophyll v* (Chl *v*)
 23. *Chlorophyll w* (Chl *w*)
 24. *Chlorophyll x* (Chl *x*)
 25. *Chlorophyll y* (Chl *y*)
 26. *Chlorophyll z* (Chl *z*)
 27. *Chlorophyll aa* (Chl *aa*)
 28. *Chlorophyll ab* (Chl *ab*)
 29. *Chlorophyll ac* (Chl *ac*)
 30. *Chlorophyll ad* (Chl *ad*)
 31. *Chlorophyll ae* (Chl *ae*)
 32. *Chlorophyll af* (Chl *af*)
 33. *Chlorophyll ag* (Chl *ag*)
 34. *Chlorophyll ah* (Chl *ah*)
 35. *Chlorophyll ai* (Chl *ai*)
 36. *Chlorophyll aj* (Chl *aj*)
 37. *Chlorophyll ak* (Chl *ak*)
 38. *Chlorophyll al* (Chl *al*)
 39. *Chlorophyll am* (Chl *am*)
 40. *Chlorophyll an* (Chl *an*)
 41. *Chlorophyll ao* (Chl *ao*)
 42. *Chlorophyll ap* (Chl *ap*)
 43. *Chlorophyll aq* (Chl *aq*)
 44. *Chlorophyll ar* (Chl *ar*)
 45. *Chlorophyll as* (Chl *as*)
 46. *Chlorophyll at* (Chl *at*)
 47. *Chlorophyll au* (Chl *au*)
 48. *Chlorophyll av* (Chl *av*)
 49. *Chlorophyll aw* (Chl *aw*)
 50. *Chlorophyll ax* (Chl *ax*)
 51. *Chlorophyll ay* (Chl *ay*)
 52. *Chlorophyll az* (Chl *az*)
 53. *Chlorophyll ba* (Chl *ba*)
 54. *Chlorophyll bb* (Chl *bb*)
 55. *Chlorophyll bc* (Chl *bc*)
 56. *Chlorophyll bd* (Chl *bd*)
 57. *Chlorophyll be* (Chl *be*)
 58. *Chlorophyll bf* (Chl *bf*)
 59. *Chlorophyll bg* (Chl *bg*)
 60. *Chlorophyll bh* (Chl *bh*)
 61. *Chlorophyll bi* (Chl *bi*)
 62. *Chlorophyll bj* (Chl *bj*)
 63. *Chlorophyll bk* (Chl *bk*)
 64. *Chlorophyll bl* (Chl *bl*)
 65. *Chlorophyll bm* (Chl *bm*)
 66. *Chlorophyll bn* (Chl *bn*)
 67. *Chlorophyll bo* (Chl *bo*)
 68. *Chlorophyll bp* (Chl *bp*)
 69. *Chlorophyll bq* (Chl *bq*)
 70. *Chlorophyll br* (Chl *br*)
 71. *Chlorophyll bs* (Chl *bs*)
 72. *Chlorophyll bt* (Chl *bt*)
 73. *Chlorophyll bu* (Chl *bu*)
 74. *Chlorophyll bv* (Chl *bv*)
 75. *Chlorophyll bw* (Chl *bw*)
 76. *Chlorophyll bx* (Chl *bx*)
 77. *Chlorophyll by* (Chl *by*)
 78. *Chlorophyll bz* (Chl *bz*)
 79. *Chlorophyll ca* (Chl *ca*)
 80. *Chlorophyll cb* (Chl *cb*)
 81. *Chlorophyll cc* (Chl *cc*)
 82. *Chlorophyll cd* (Chl *cd*)
 83. *Chlorophyll ce* (Chl *ce*)
 84. *Chlorophyll cf* (Chl *cf*)
 85. *Chlorophyll cg* (Chl *cg*)
 86. *Chlorophyll ch* (Chl *ch*)
 87. *Chlorophyll ci* (Chl *ci*)
 88. *Chlorophyll cj* (Chl *cj*)
 89. *Chlorophyll ck* (Chl *ck*)
 90. *Chlorophyll cl* (Chl *cl*)
 91. *Chlorophyll cm* (Chl *cm*)
 92. *Chlorophyll cn* (Chl *cn*)
 93. *Chlorophyll co* (Chl *co*)
 94. *Chlorophyll cp* (Chl *cp*)
 95. *Chlorophyll cq* (Chl *cq*)
 96. *Chlorophyll cr* (Chl *cr*)
 97. *Chlorophyll cs* (Chl *cs*)
 98. *Chlorophyll ct* (Chl *ct*)
 99. *Chlorophyll cu* (Chl *cu*)
 100. *Chlorophyll cv* (Chl *cv*)
 101. *Chlorophyll cw* (Chl *cw*)
 102. *Chlorophyll cx* (Chl *cx*)
 103. *Chlorophyll cy* (Chl *cy*)
 104. *Chlorophyll cz* (Chl *cz*)
 105. *Chlorophyll da* (Chl *da*)
 106. *Chlorophyll db* (Chl *db*)
 107. *Chlorophyll dc* (Chl *dc*)
 108. *Chlorophyll dd* (Chl *dd*)
 109. *Chlorophyll de* (Chl *de*)
 110. *Chlorophyll df* (Chl *df*)
 111. *Chlorophyll dg* (Chl *dg*)
 112. *Chlorophyll dh* (Chl *dh*)
 113. *Chlorophyll di* (Chl *di*)
 114. *Chlorophyll dj* (Chl *dj*)
 115. *Chlorophyll dk* (Chl *dk*)
 116. *Chlorophyll dl* (Chl *dl*)
 117. *Chlorophyll dm* (Chl *dm*)
 118. *Chlorophyll dn* (Chl *dn*)
 119. *Chlorophyll do* (Chl *do*)
 120. *Chlorophyll dp* (Chl *dp*)
 121. *Chlorophyll dq* (Chl *dq*)
 122. *Chlorophyll dr* (Chl *dr*)
 123. *Chlorophyll ds* (Chl *ds*)
 124. *Chlorophyll dt* (Chl *dt*)
 125. *Chlorophyll du* (Chl *du*)
 126. *Chlorophyll dv* (Chl *dv*)
 127. *Chlorophyll dw* (Chl *dw*)
 128. *Chlorophyll dx* (Chl *dx*)
 129. *Chlorophyll dy* (Chl *dy*)
 130. *Chlorophyll dz* (Chl *dz*)
 131. *Chlorophyll ea* (Chl *ea*)
 132. *Chlorophyll eb* (Chl *eb*)
 133. *Chlorophyll ec* (Chl *ec*)
 134. *Chlorophyll ed* (Chl *ed*)
 135. *Chlorophyll ee* (Chl *ee*)
 136. *Chlorophyll ef* (Chl *ef*)
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50. A method for facilitating a wireless transaction, comprising;

receiving, by a transaction management system, a transaction request from a transaction requester;

receiving, by the transaction management system, a spoken authentication code from the transaction requester;

authenticating the spoken authentication code;

communicating a transaction code from the transaction management system to a wireless communication device after authenticating the spoken authentication code; and

optically scanning the transaction code from a visual display of the wireless communication device.

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